



## ENTERPRISE NETWORK ENGINEER I/II

### Purpose:

To actively support and uphold the City's stated mission and values. To perform technical work in the long-range planning, design, and management of the electronic communications infrastructure utilized by the City; and to provide technical assistance to staff in the installation and maintenance of voice, data, video conferencing and radio equipment.

### Supervision Received and Exercised:

Receives direction from the Systems and Network Supervisor or from other supervisory or management staff.

### Distinguishing Characteristics:

**Enterprise Network Engineer I** – This is the entry level class in the Enterprise Network Engineer series. This class is distinguished from the Enterprise Network Engineer II by the performance of the more routine tasks and duties assigned to positions within the series including fundamental testing and maintenance of telecommunication or LAN/WAN systems. Since this class is typically used as a training class, employees may have only limited related work experience.

**Enterprise Network Engineer II** – This is the journey level class within the Enterprise Network Engineer series. Employees within this class are distinguished from the Enterprise Network Engineer I by the performance of complex telecommunications and LAN/WAN analysis and design duties. Employees at this level receive only occasional instruction or assistance as new or unusual situations arise, and are fully aware of the operating procedures and policies of the work unit. Positions in this class are flexibly staffed and are normally filled by advancement from the I-level, or when filled from the outside, more extensive telecommunications and LAN/WAN experience is required.

### Examples of Duties:

This class specification is intended to indicate the basic nature of positions allocated to the class and examples of typical duties that may be assigned. It does not imply that all positions within the class perform all of the duties listed, nor does it necessarily list all possible duties that may be assigned.

Duties may include, but are not limited to, the following:

*Effective November 1988*

*Reviewed October 1995*

*Revised April 2001*

*Revised November 2001*

*Revised May 2002 (changed to flex-class)*

*Revised July 2003 (title change; range adjustment; duties to include additional LAN/WAN focus)*

## CITY OF TEMPE

### Enterprise Network Engineer I/II (Continued)

- Develop tactical and long-range plans for the City's LAN/WAN and telecommunications infrastructure; perform routine analysis on the design and efficiency of the infrastructure to ensure that it's current and future structure will meet the business needs of the City; install and maintain LAN/WAN and telecommunications infrastructure equipment; administer software related to management of the infrastructure.
- Act as project coordinator for technical projects of moderate complexity in such areas as integrated voice and data, local area and wide-area networks, wireless systems, trunked radio and related infrastructure.
- Assist in developing complex technical specifications for the design or purchase of communications equipment including fiber optic systems, high-speed cable, voice/data switches and routers, and related equipment; evaluate communications products.
- Assist in the development and implementation of long-term goals and objectives to meet the City's LAN/WAN and telecommunications infrastructure needs.
- Research LAN/WAN and telecommunications infrastructure equipment to ensure that it meets the specifications established by the City; recommend design, construction, installation, and maintenance of equipment.
- Prepare operational reports including project status, equipment, network, inventory and area activity summaries; develop and maintain procedures manuals.
- Participate in budget preparation and administration; prepare cost estimates for budget recommendations; monitor and control expenditures.
- Participate in the selection of staff.
- Maintain contact with vendors to obtain information on product changes and new products; call vendors for status reports on purchases.
- Attend professional meetings and conferences as required.
- Perform related duties as assigned.

### **Experience and Training Guidelines:**

Any combination of experience and training that would likely provide the required knowledge and abilities is qualifying. The hiring department may include job related experience, training or license and certification preferences at the time of recruitment. A typical way to obtain the knowledge and abilities would be:

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CITY OF TEMPE  
Enterprise Network Engineer I/II (Continued)

**Experience:**

Enterprise Network Engineer I

One year of LAN/WAN or telecommunications infrastructure engineering experience and proficiency in two of the following: switches and routers, trunked radio, cable engineering, voice networks, infrastructure security, or data communications.

Enterprise Network Engineer II

Three years of LAN/WAN or telecommunications infrastructure engineering experience and proficiency in two of the following: switches and routers, trunked radio, cable engineering, voice networks, infrastructure security, or data communications.

**Training:**

For both levels, requires the equivalent to a Bachelor's degree from an accredited college or university with major course work in electronics or communications engineering or a related field.

**Licenses/Certifications:**

Possession of, or ability to obtain, an appropriate, valid Arizona driver's license.

**This position is included in the City's classified service, pursuant to City of Tempe Personnel Rules and Regulations, Rule 1, Section 103.**

**Job Code: 2521/2522**

**Salary Range: 37/41**

**FLSA: Exempt**

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